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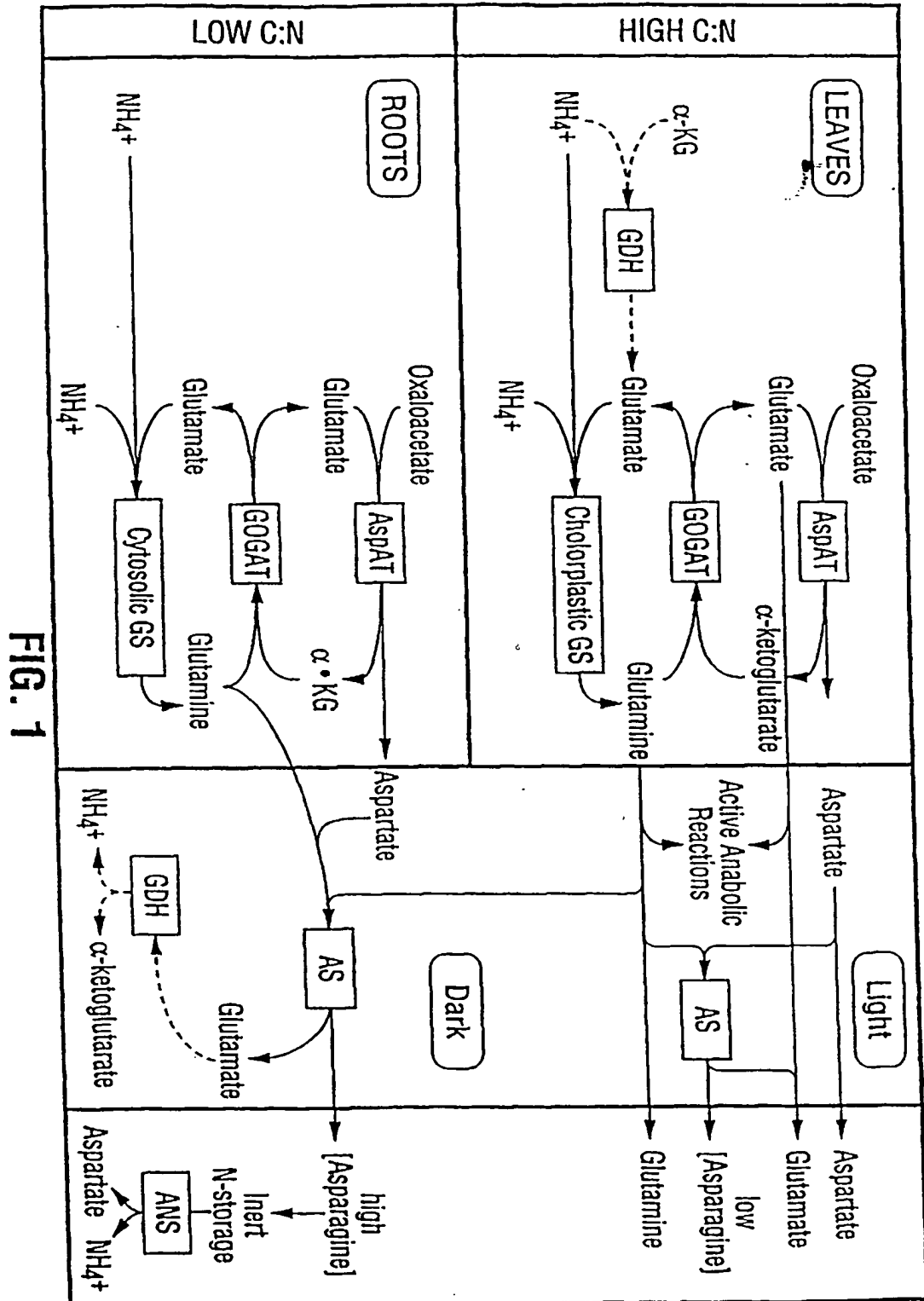
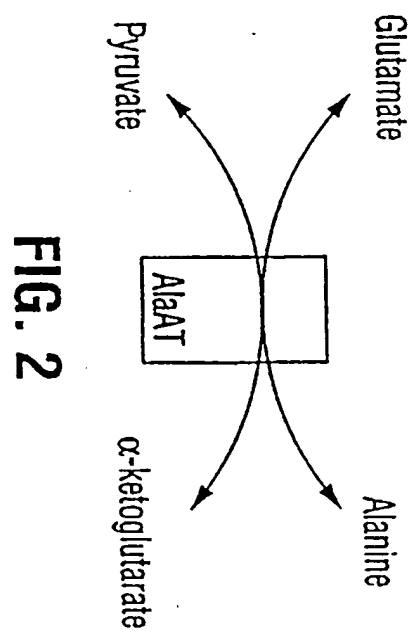


FIG. 1



GTGACCTGCAGGTCCAACGATCCTAATCGGGTATATCCCGACCCGAAAGAACGTAGACACGTG -250  
ACAAACTTCATATGATCCGAGTGAATCAAGCCAAAGGGGATTGACACCAACAGCTCAGCTTTCCGTTTT -180  
CGGTCCAATCGCTGTTCCAACTTTACTTACAAGTCGTACACGTCCTCTCTCTCTCTCTCTCTCTCACTC -110  
ACTTCCTCTTATAAAGACTCTCTGATCAACGTATAATCGGAAACTCCATTCTTTGATACCATCGATTA -40  
TACTAAGAGAGGTGATTGATTCTTTAATCACTGTTTGATTA<sup>+1</sup>TCCCTTAACCTTGAATCCATTTACTCTGTTC 31  
ATCATTTTGTAGAG

FIG. 3

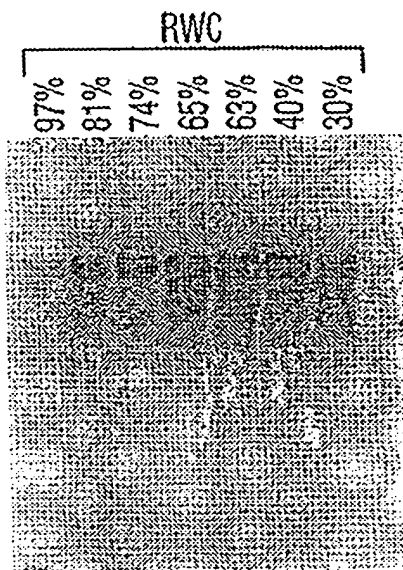


FIG. 4A

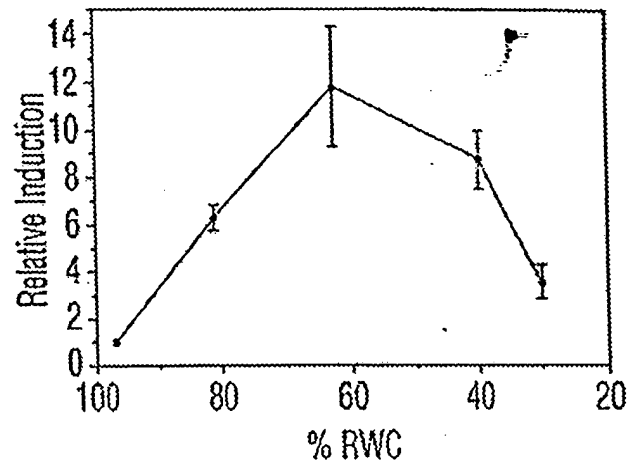


FIG. 4B

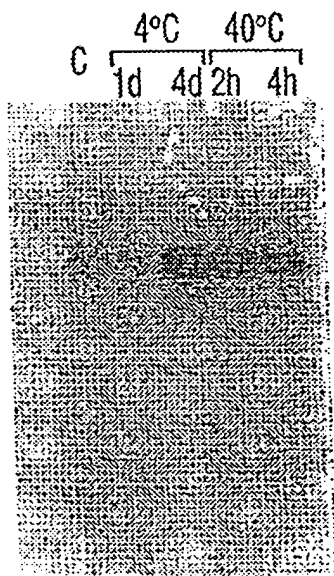


FIG. 4C

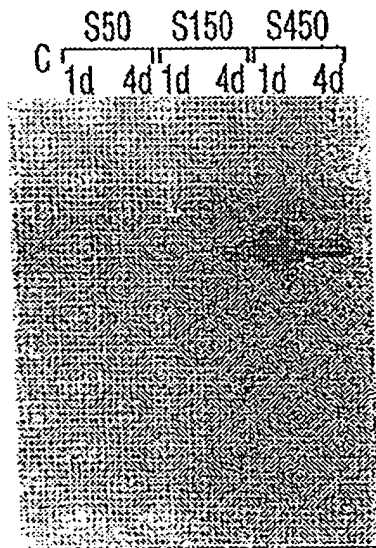


FIG. 4D

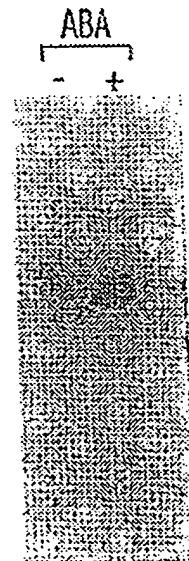


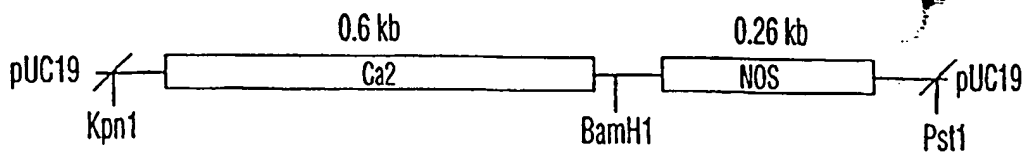
FIG. 4E

GGCCACAAAACCGCGAAGAGATAGACGGACAGCTAGAGCGCTCGGAAGATACTCGCTGCTCGCCGCCCTTGCTTAGTGTCTGCC 94  
ATGCTGCCACCGTCGCCGTGACACACTGACCCCAAGTTTAAATGTGATGTCTGTGCGTGAAGATTCATCCATGCTCAGCGCTTG 190  
M A A T V A V D N L N P K V L K C E Y A V R G E I V I H A Q R L 32  
CAGGAACAGCTAAAGACTCAACCCAGGGTCTTACTTTTGATGAGATCCTTATTGTACATTGGGAACCAATCTCTGGTCAGCAACCAATT 286  
Q E Q L K T Q P G S L P F D E I L Y C N I G N P Q S L G Q Q P V 64  
ACATCTTCAGGAGGTCTTGCCCTTGATGATCAACCACTGTGCAAGAGAGAAATCAAAATGTTCAAGTCTGATGATTTCTCGA 382  
T F F R E V L A L C D H P D L L Q R E E I K T L F S A D S I S R 96  
GCAAGCAGATTCTGCCATGATACCTGAGAGCAACAGAGCATACGCCATAGCCAGGTATTAAAGACTTCGTATGCAATTGCTCTGGG 478  
A K Q I L A M I P G R A T G A Y S H S Q G I K G L R D A I A S G 128  
ATGCTTCAGAGATGATTCCTGCTGATGATGACATTTTCTCACAGATGGAGCAAGTCTGGGGTGACCTGATGATGCAATTACTGATA 574  
I A S R D G F P A N A D D I F L T D G A S P G V H L M M Q L L I 160  
AGGAATGAGAAGATGGCATTCTTGCCGATTCCTCAGTACCCCTTGACTCGGCTTCATAGCTCTTCATGCGGAGCTCTGTGCCCATCTAT 670  
R N E K D G I L V P I P Q Y P L Y S A S I A L H G G A L V P Y Y 192  
CTCAATGATCAGCGGCTGGGTTGGAACCTCTGATGTTAGAGCAACTTGAGATGCTCGTCAAGAGGCATCAAGTTAGGGCTTGGTG 766  
L N E S T G W G L E T S D V K K Q L E D A R S R G I N V R A L V 224  
GTATCAATCCAGGAATCCAACTGAGACAGGTACTGCTGAAGAAAACCAATATGACATAGTGAAGTTCGCAAAAATGAGGCTCTTCTCTA 862  
V I N P G N P T G Q V L A E E N Q Y D I V K F C K N E G L V L L 256  
GCTGATGAGTATACCAAGACAATCTATGTTGACACAAAGAAATTCACCTCTTCAAGAGATAGTGAGATCCTTGGGATACGGCGAGGAGAT 958  
A D E V Y Q E N I Y V D N K K F H S F K K I V R S L G Y G E E D 288

FIG. 5

CTCCCTAGATCATATCAATCTGTTTCTAAGGATATTATGTGAGTGTGTAAGAAGGTGTTACTTTGAGATTACTGGCTTCAGTCTCCA  
L P L V S Y Q S V S K G Y Y G E C G K R G G Y F E I T G F S A P 1054  
GTAGAGACAGATCTACAAAATAGCATGAGTGAACCTATGCTCCATATACCTGGCCAGATCCTTGTAAGTCTTGTATGAAACCAAGGCT  
V R E Q I Y K I A S V N L C S N I T G Q I L A S L V M N P P K A 1150  
AGTATGAATCATACGCTTCATACAGGCAAGAAAGATGGAATCTCGCATCTTTAGCTCGTCGGAAGGCATTGGAGCATGCATTCATATAA  
S D E S Y A S Y K A E K D G I L A S L A R R A K A L E H A F N K 384  
CTGAGGAATTACTTGCACGAGGCTGAAGAGCAATGTAAGTTCCTCCCTCAATCTGTCTGCCACAGAAAGCAATTGAGGCTGCTAAAGCTCT  
L E G I T C N E A E G A M Y V F P Q I C L P Q K A I E A A K A A 1342  
AACAAAGCACCTGATGCATTTCTATGCTCTTCTGCTCTCGAGTGAATGGAATGCTGCTGCTGATCAGGATTTGGCCAGGTTCTCTGGACA  
N K A P D A F Y A L R L L E S T G I V V V P G S G F G Q V P G T 448  
TGGCACTTCAGTGCAGATCCTTCGCGAGAGGATTAAGATCCCGCAGTCATCTCCGCTTACGAGTGTTCATGAGGCGTTCAATGCAAGAT  
W H F R C T I L P Q E D K I P A V I S R F T V F H E A F M S E Y 1534  
CTGACTAACTGGTGCAACATGTGGATTACATCAACCCCTCATGGGGTTTTCGTAGGCGTTCTGTTTGGCCCCCCCCCCTTCTCTCTC  
R D 1630  
TCTCTCTGACAGCATCCTCTCTAGATGAGCAAAATAAAGCAAAAGCCATGTCAATCCTTAATAAAAAA 1701 482

FIG.5 Cont'd



**FIG. 6**



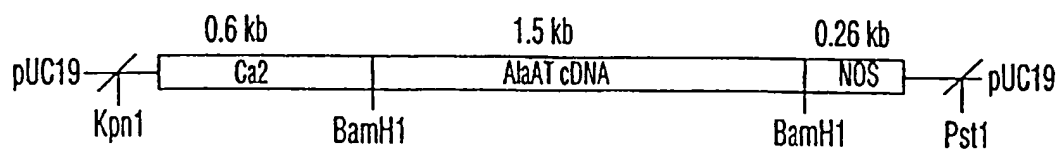


FIG. 7A

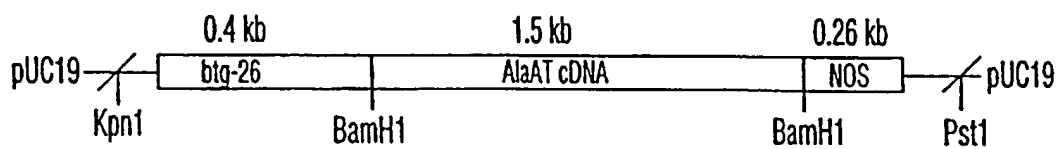


FIG. 7B

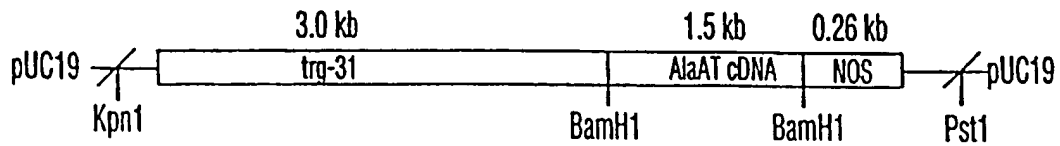


FIG. 7C

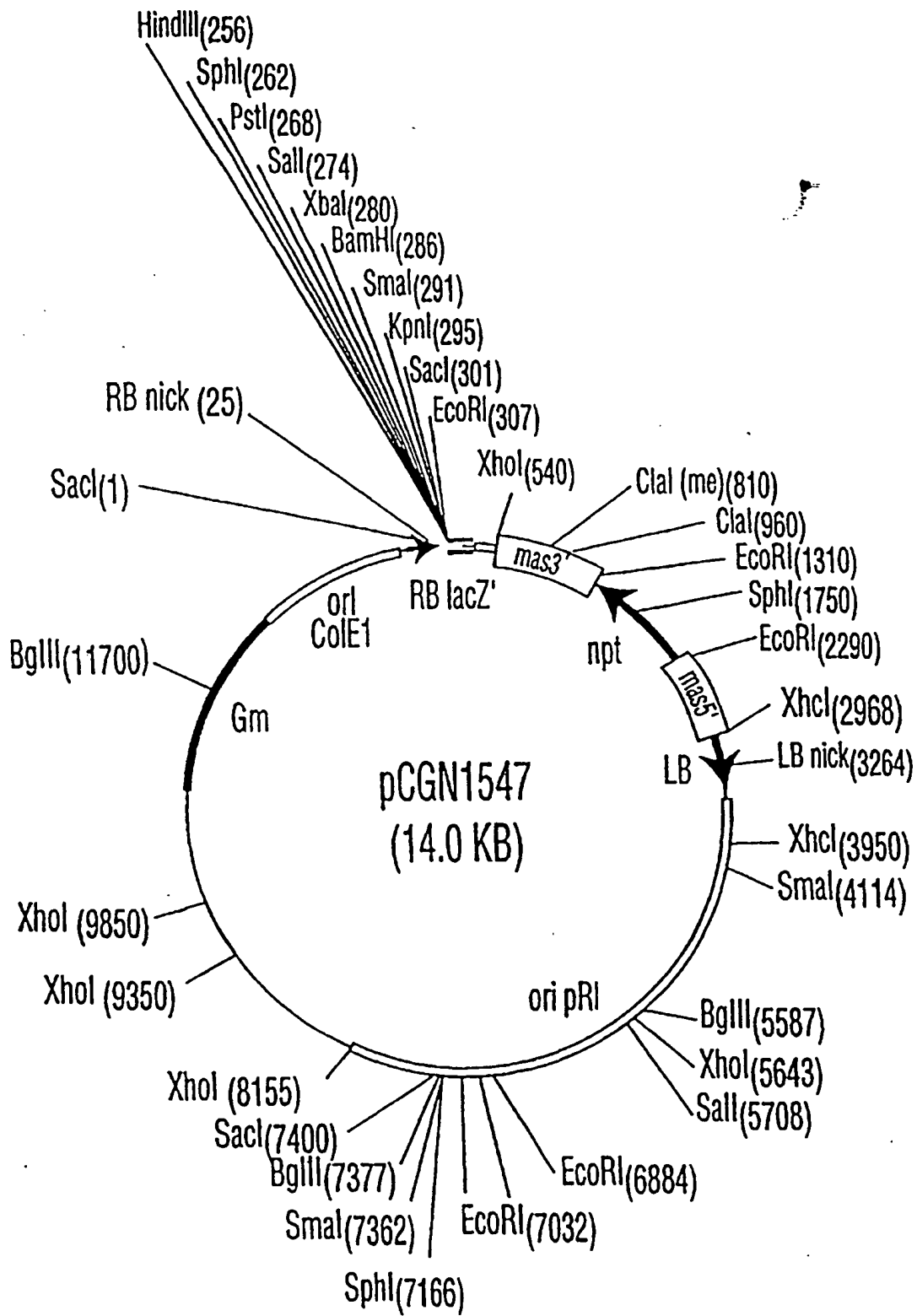


FIG. 8



FIG. 9

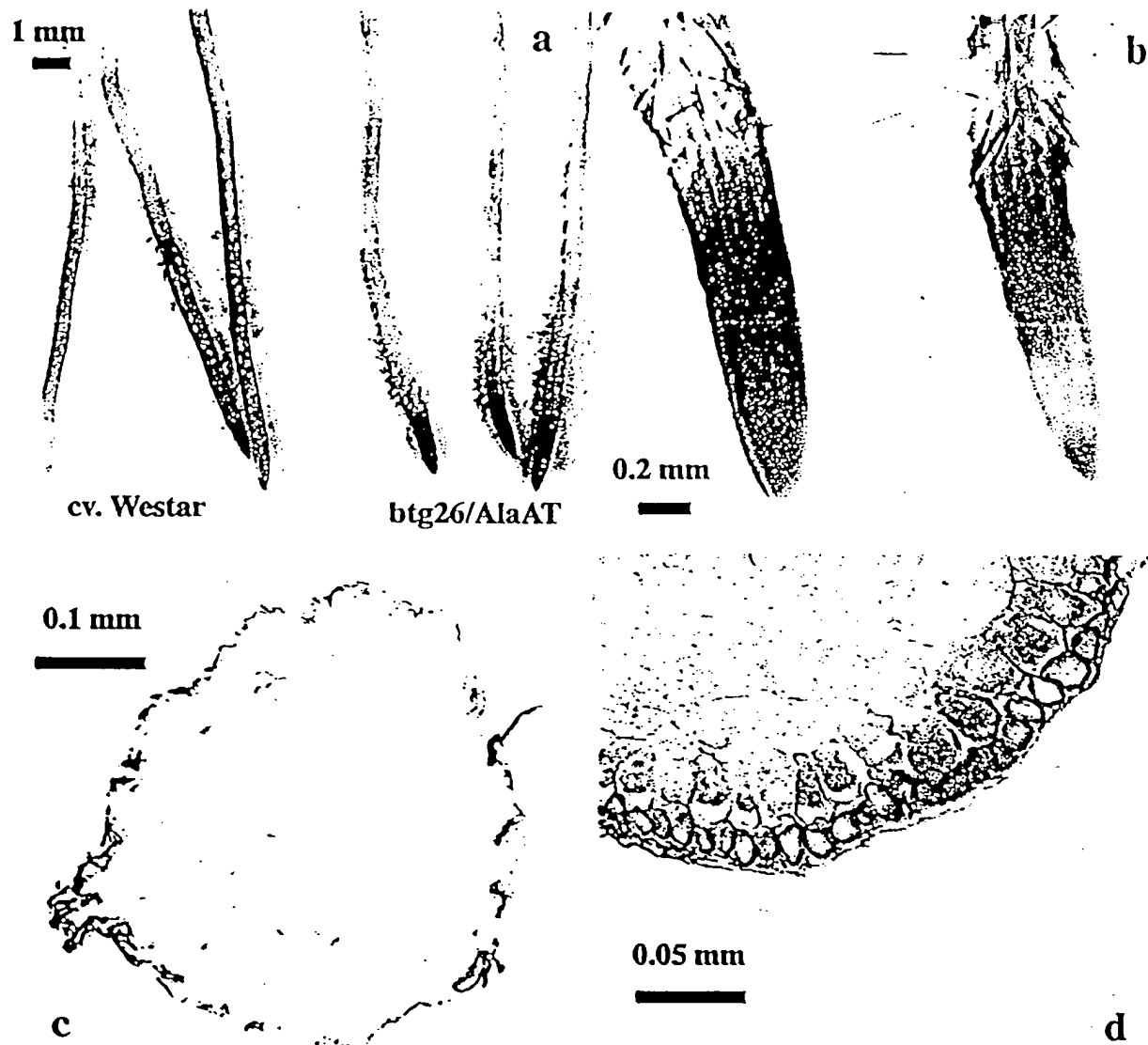
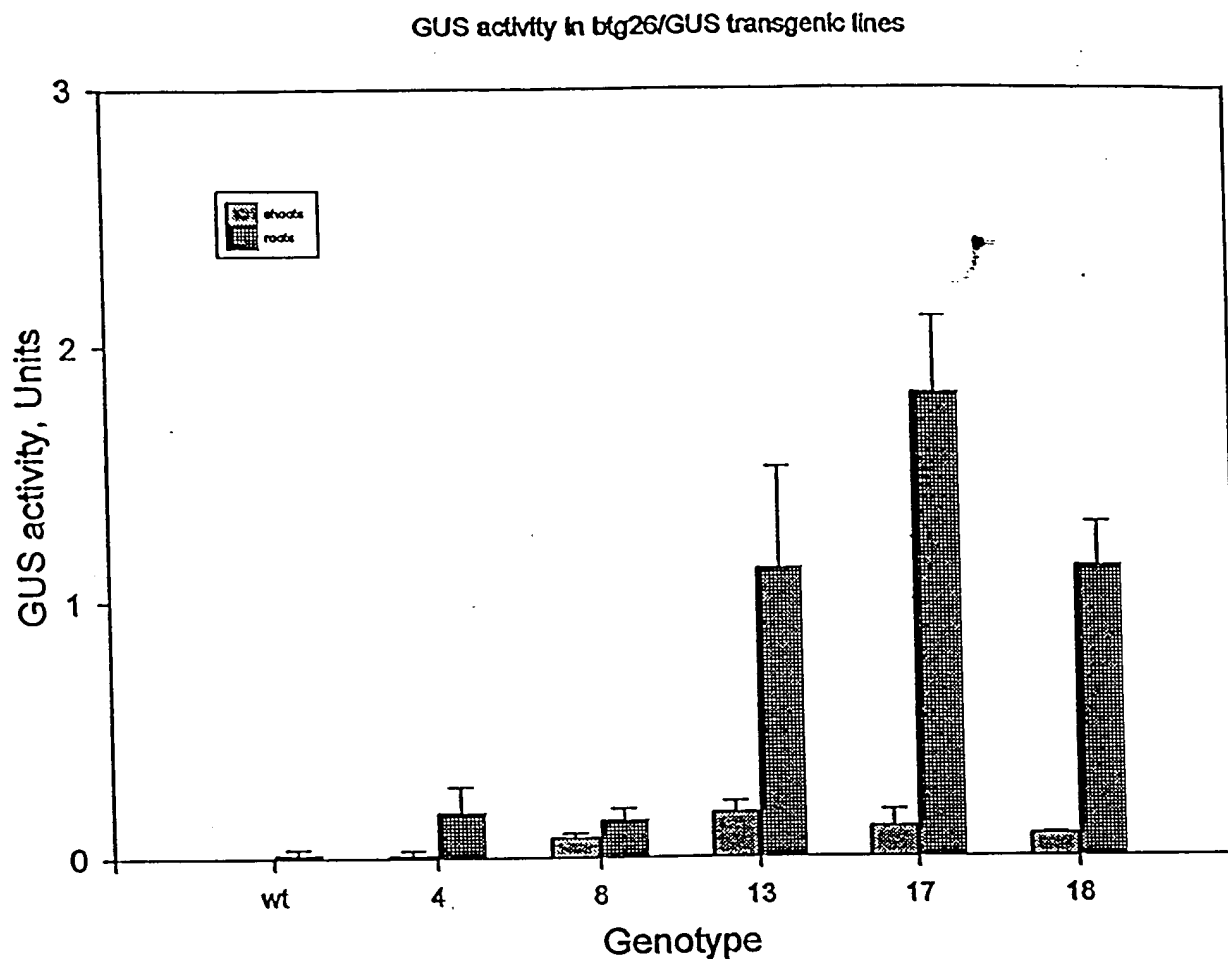


FIGURE 10



### Root/shoot ratios:

|                    |   |      |
|--------------------|---|------|
| btg26/GUS, line 4  | - | 19.5 |
| btg26/GUS, line 8  | - | 1.9  |
| btg26/GUS, line 13 | - | 6.5  |
| btg26/GUS, line 17 | - | 15.7 |
| btg26/GUS, line 18 | - | 13.2 |

**FIGURE 11.**

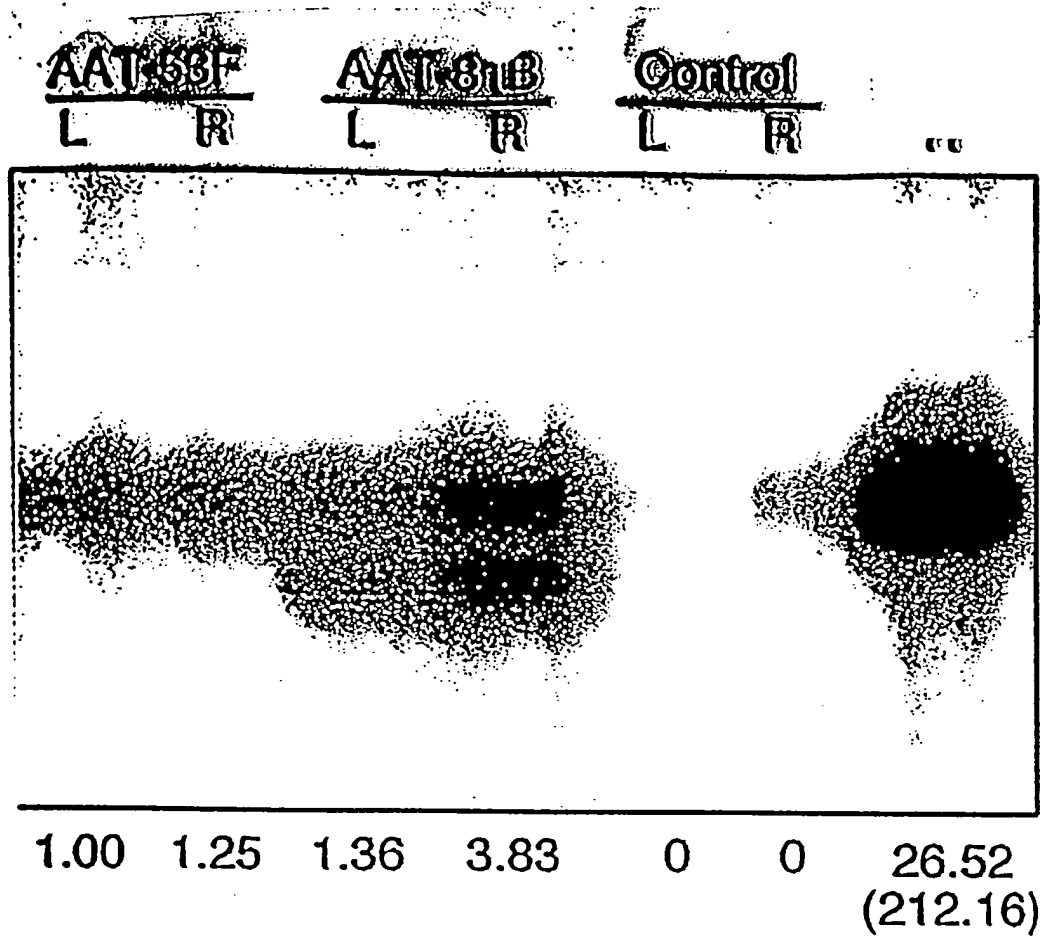


FIGURE 12

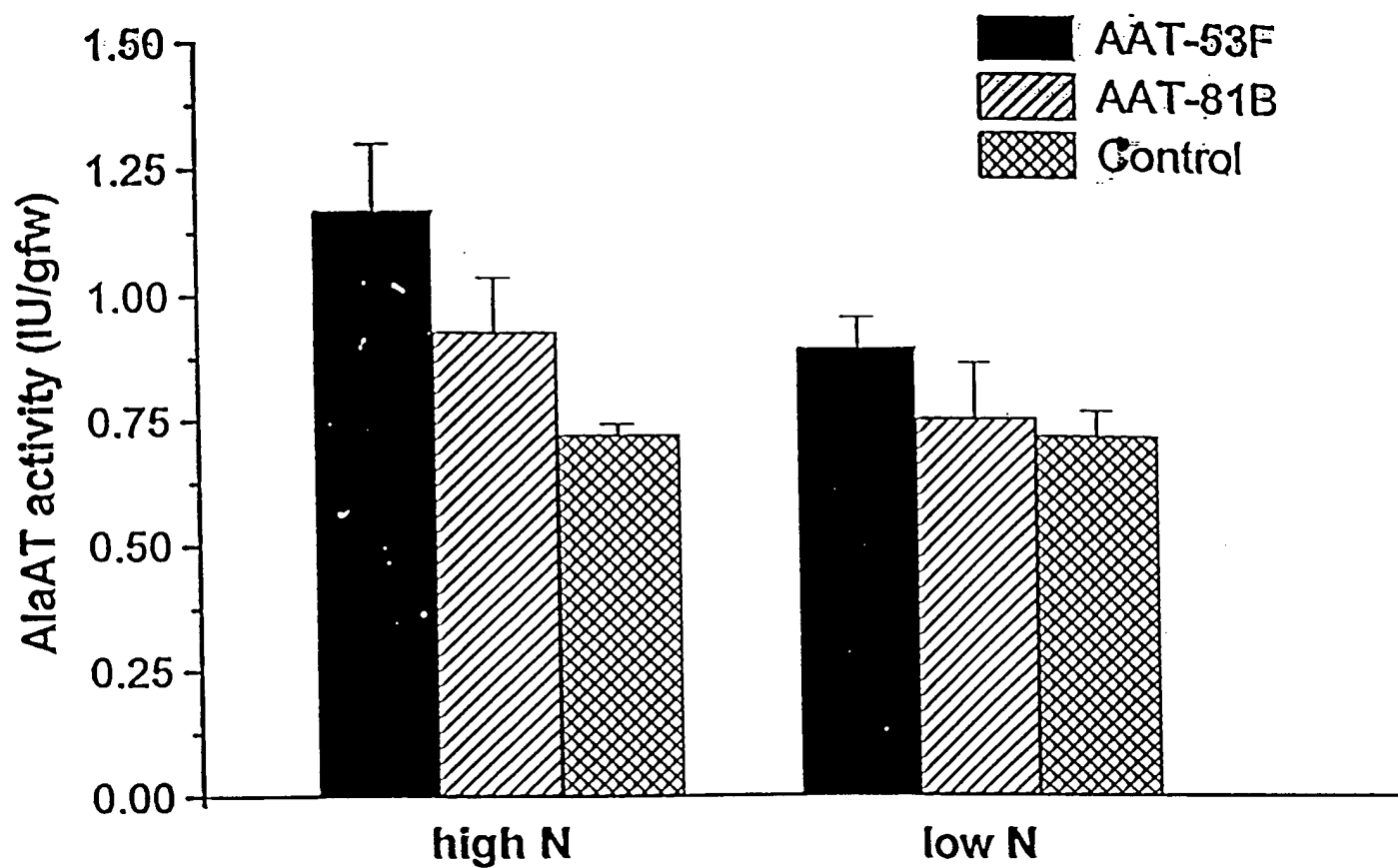
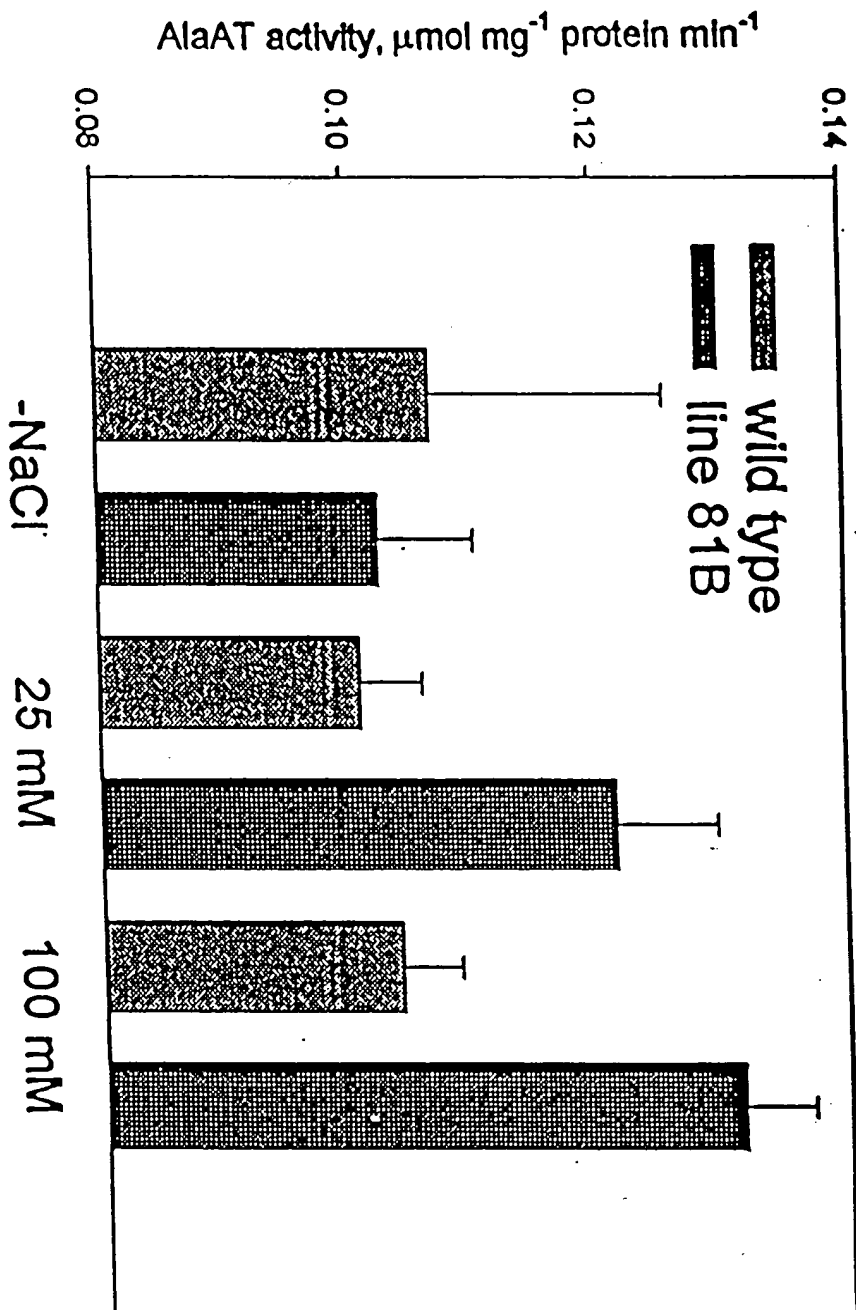


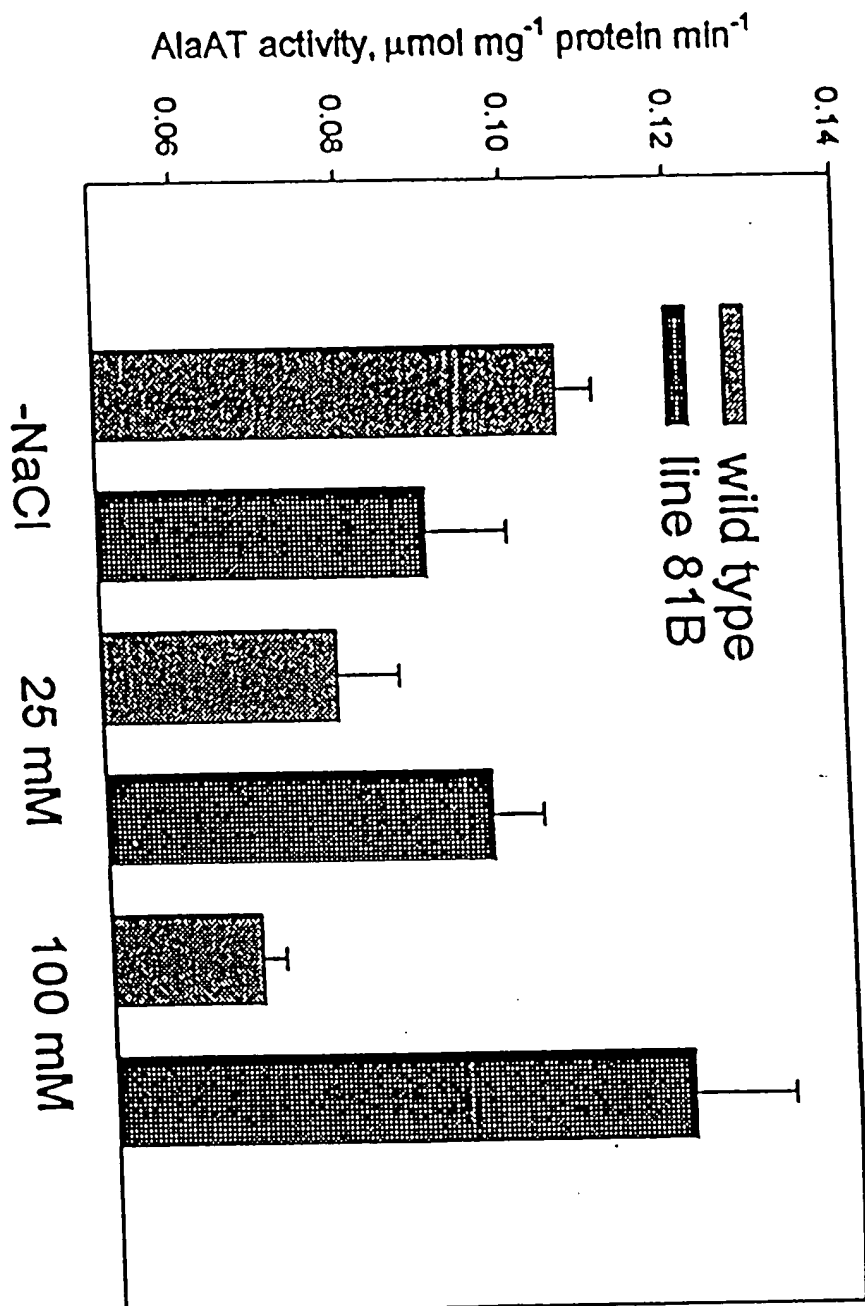
FIGURE 13



AlaAT activity in shoots of wild type, cv. Westar, and transgenic, big26/AlaAT line 81B, plants grown hydroponically on 0.5 mM nitrate after 36 hours of salt treatment

Figure 14





AlaAT activity in roots of wild type, cv. Westar, and transgenic,  
btg26/AlaAT line 81B, plants grown hydroponically on 0.5 mM nitrate  
after 36 hours of salt treatment

Figure 15

# Effect of salinity on biomass accumulation of wild type, cv. Westar, and transgenic, btg26/AlaAT, line 81B, plants

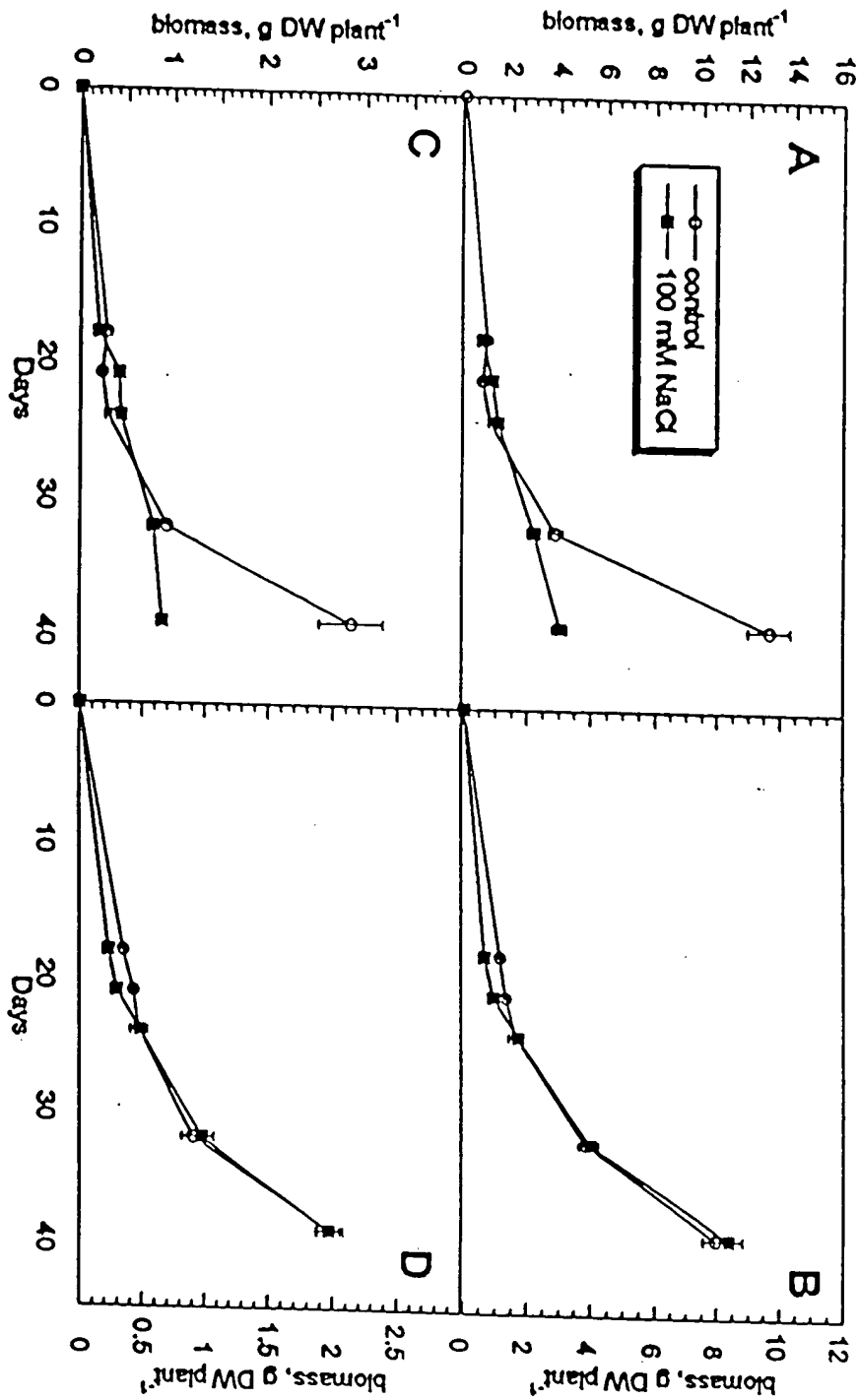


Figure 16

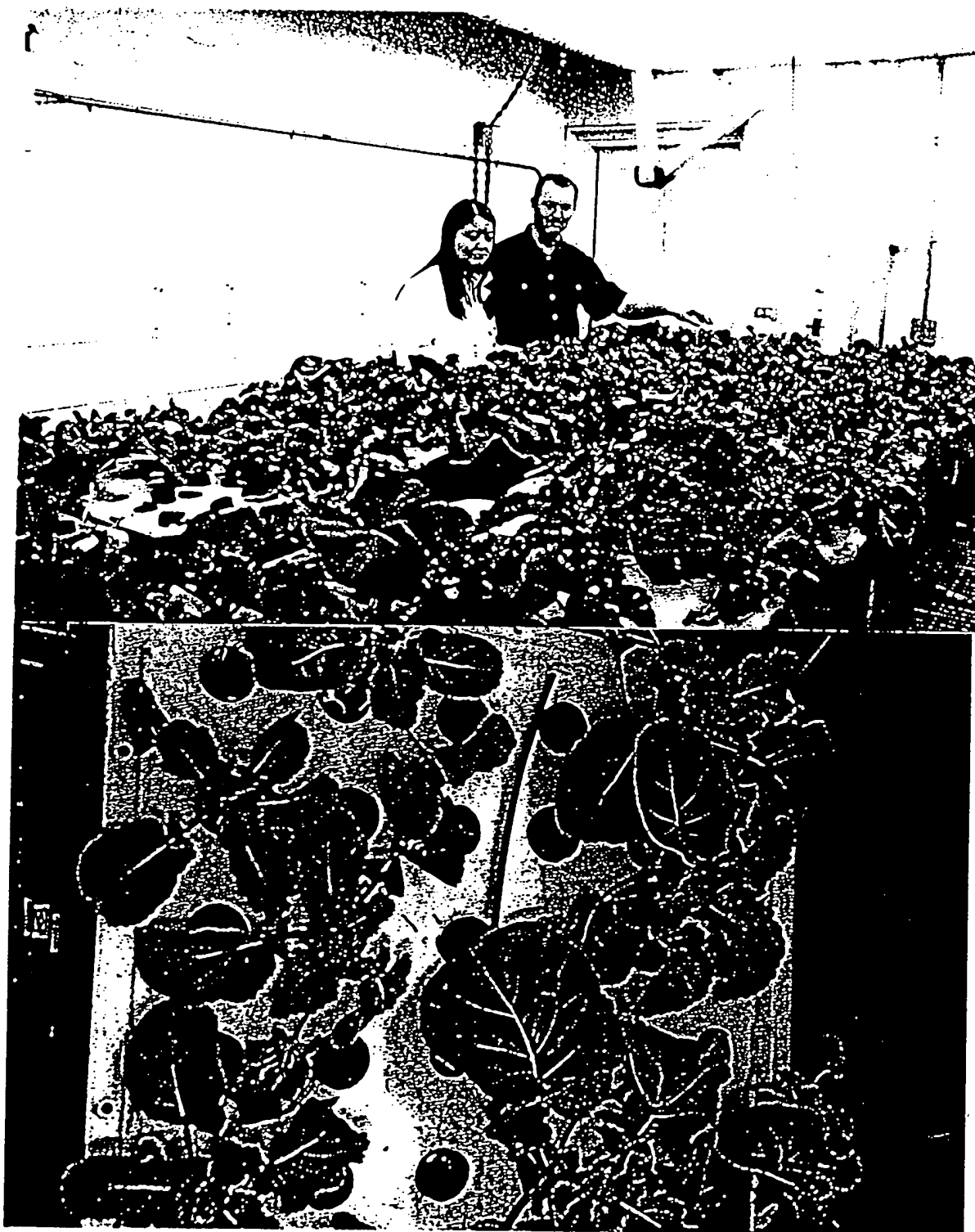


FIGURE 17

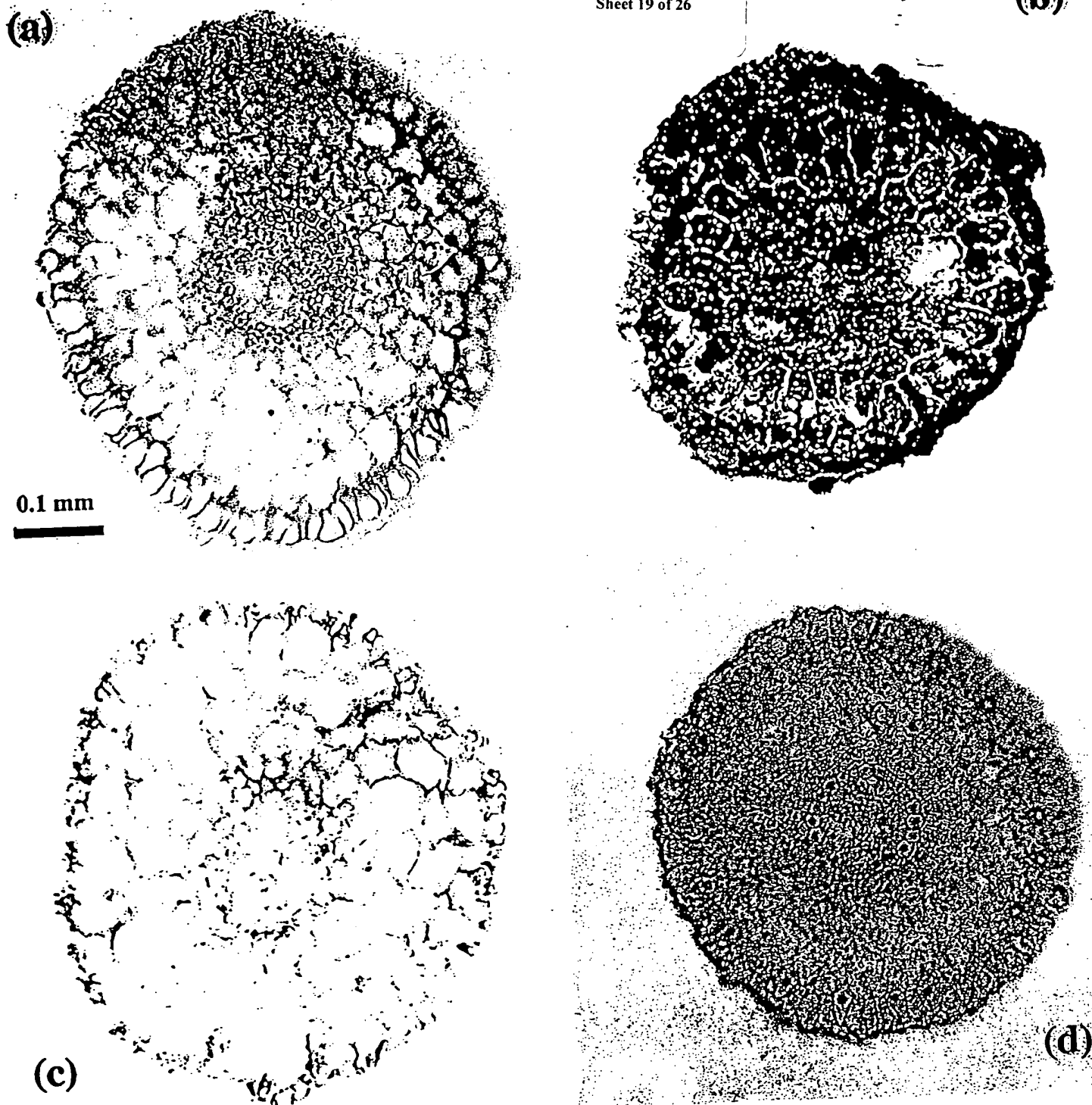
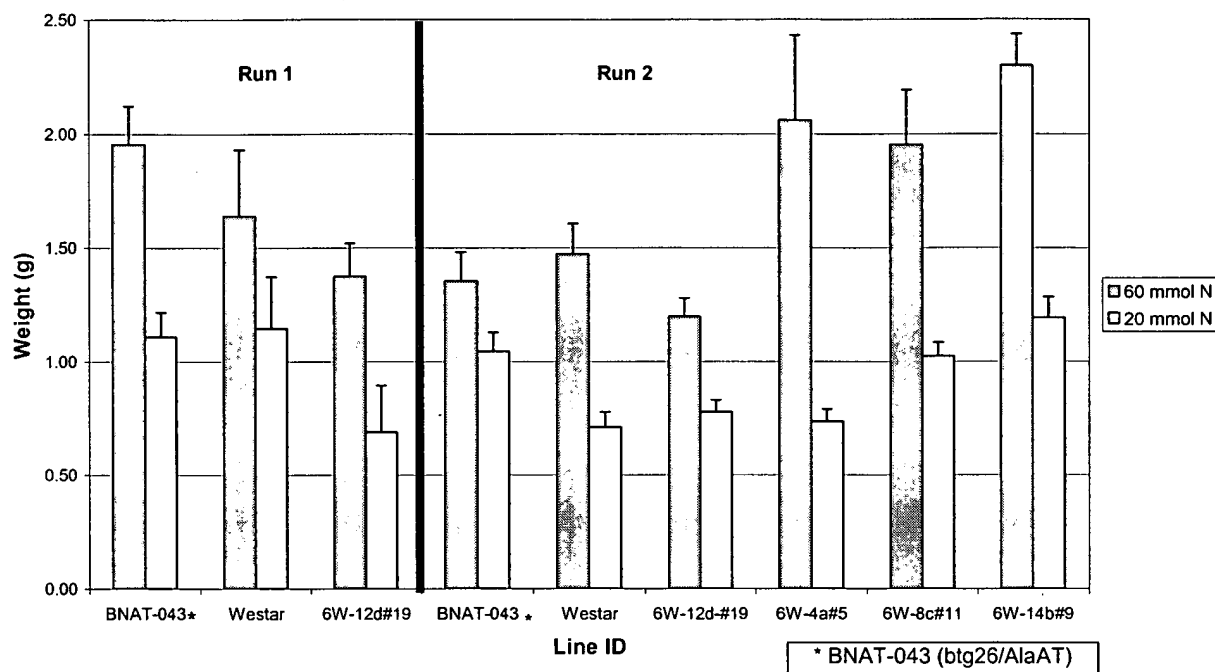


FIGURE 18

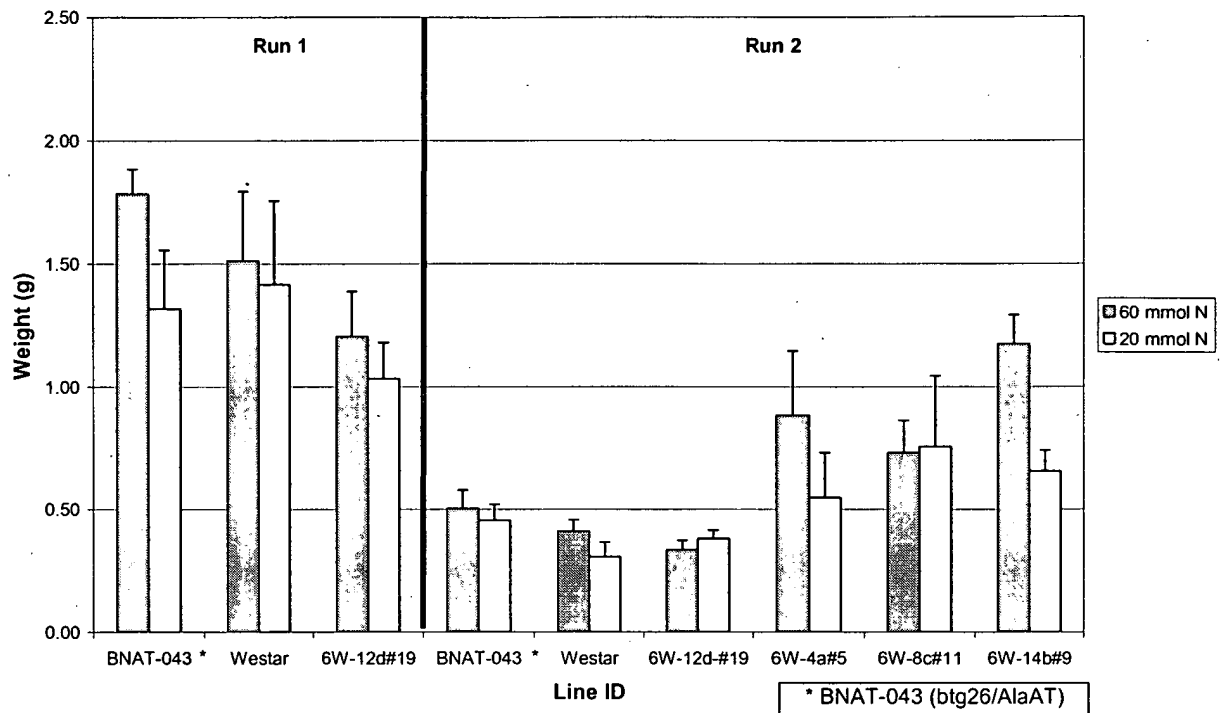
**Figure 19**

**Average Dry Shoot Weight of Transgenic Canola Lines Containing btg26/AspAT  
Grown in High and Low Nitrogen Conditions**

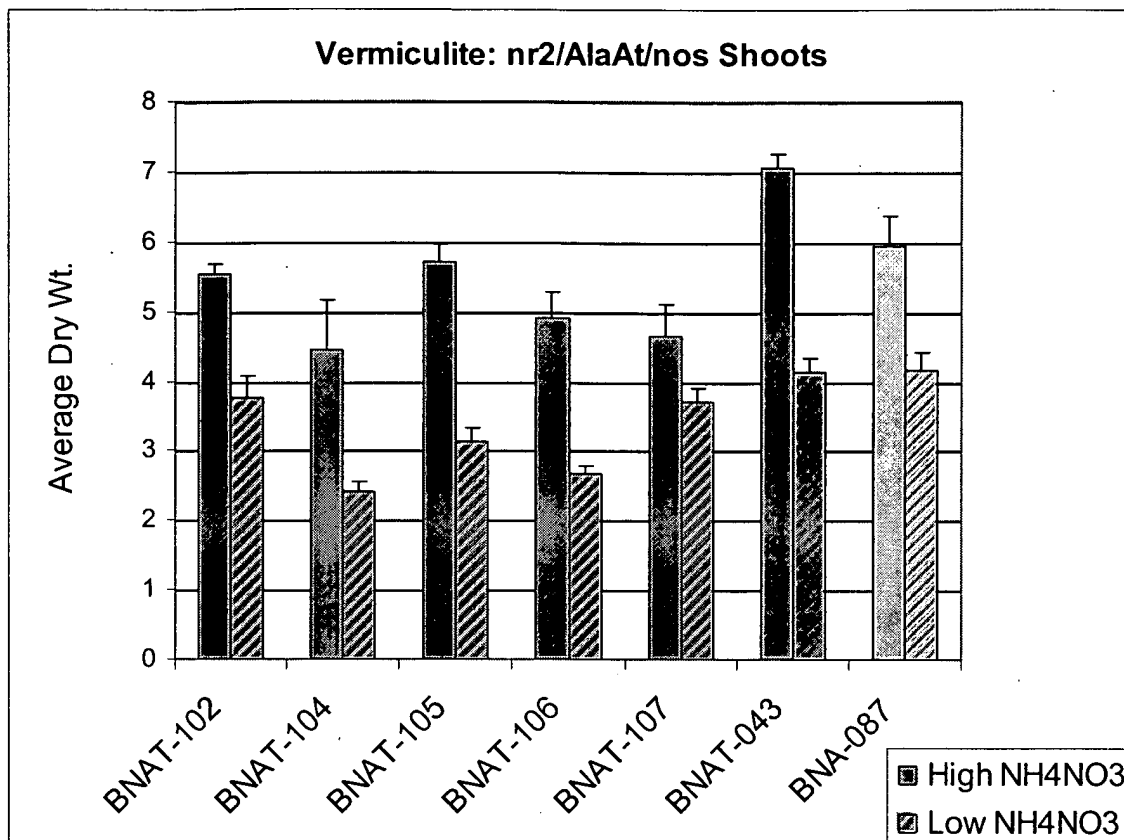


**Figure 20**

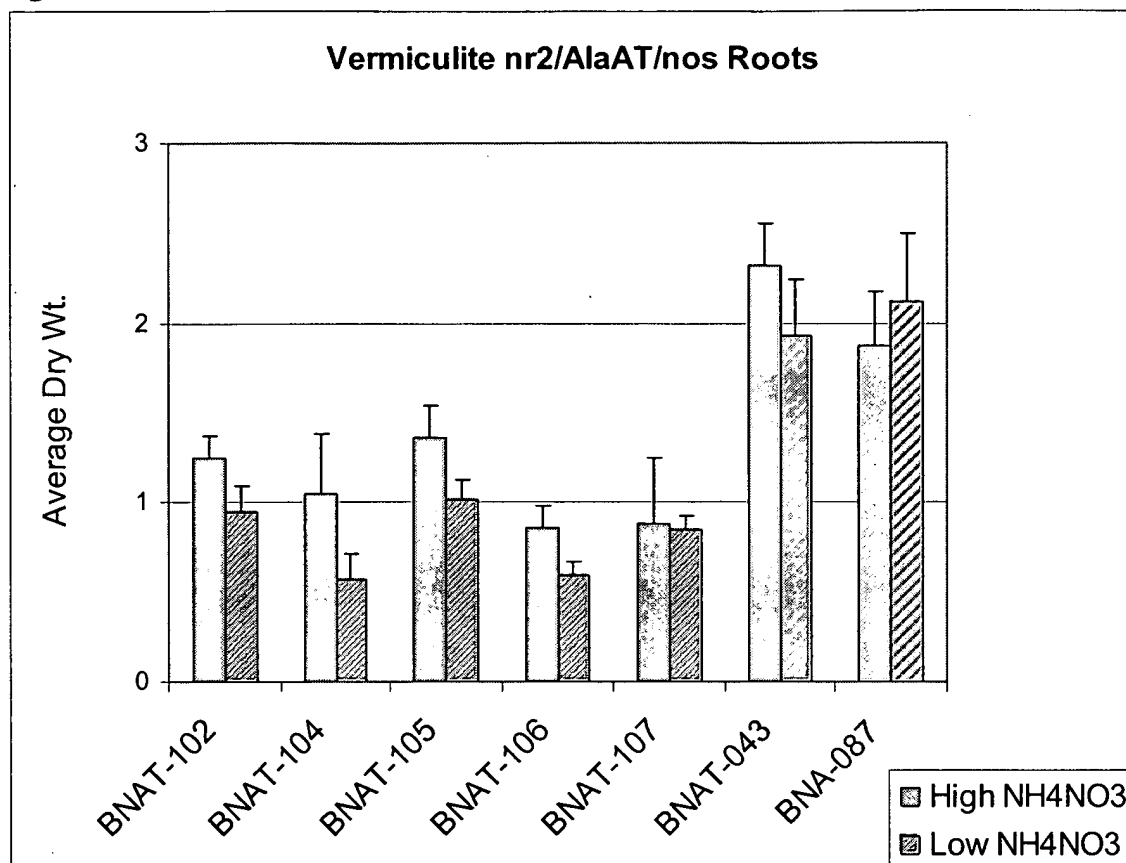
**Average Dry Root Weight of Transgenic Canola Lines Containing btg26/AspAT  
Grown in High and Low Nitrogen Conditions**



**Figure 21A**

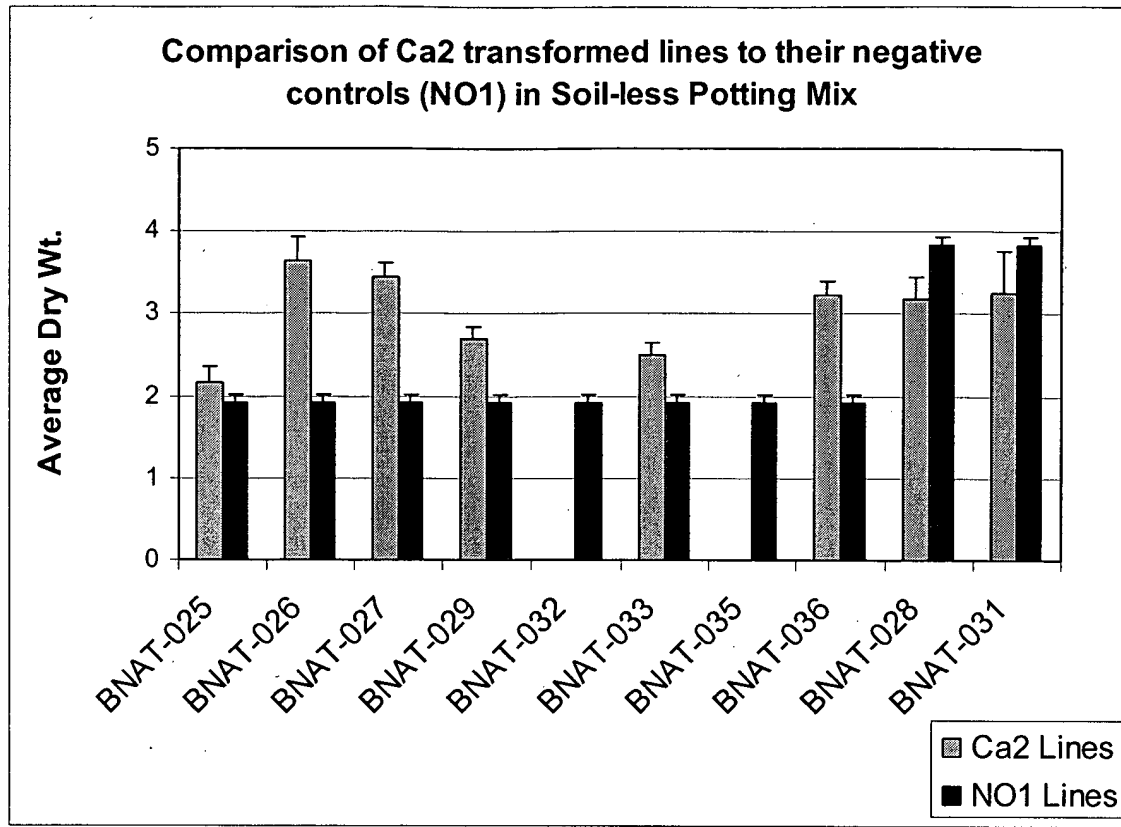


**Figure 21B**

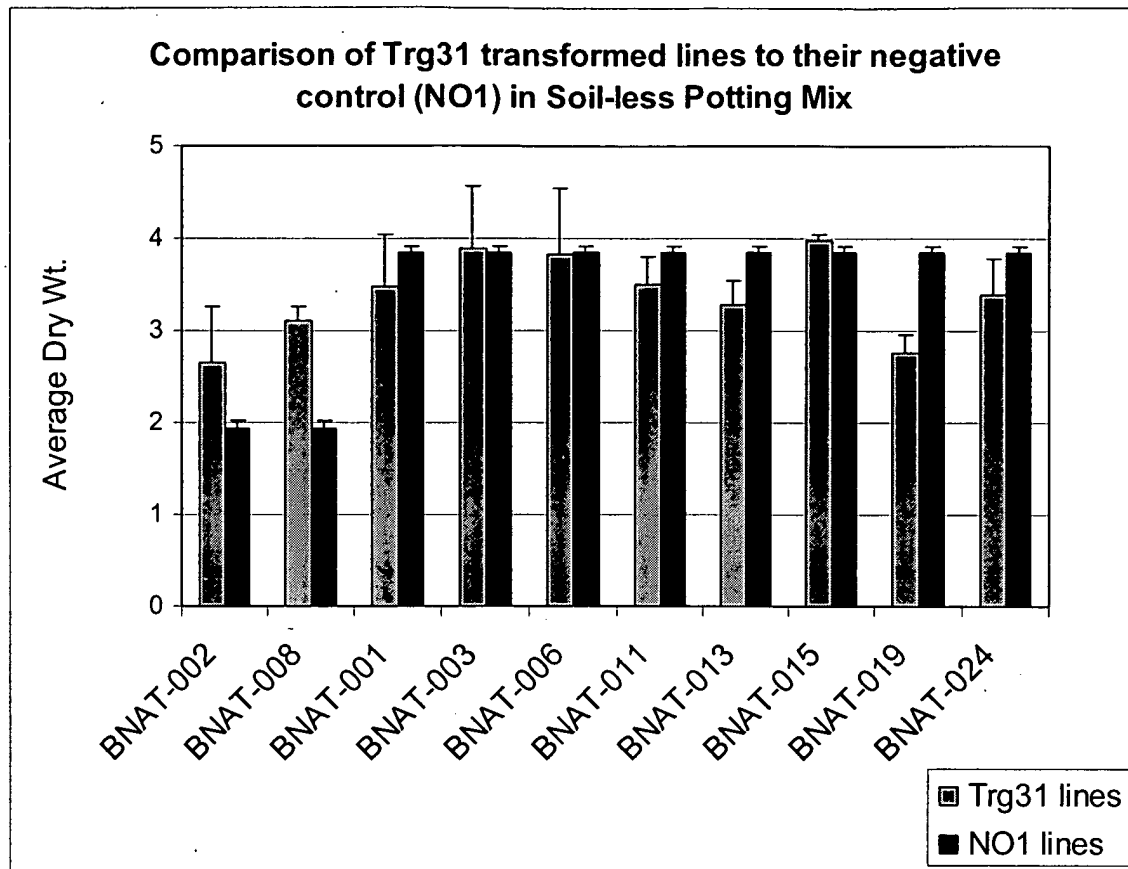




**Figure 22**



**Figure 23**



**Figure 24**

